

What the invention claimed is:

1. A handy electric sealer comprising:

a casing, said casing comprising a battery chamber holding a battery set, and a spring holder, said battery chamber comprising a front contact holder, a rear contact holder, a pair of first metal contacts mounted in said front contact holder and separated from each other, a pair of second metal contacts mounted in said rear contact holder and connected together, and two horizontal metal contacts respectively connected to said first metal contacts;

a sealing mechanism mounted in said casing and supported on said spring holder and moved up and down relative to said casing, said sealing mechanism comprising a heat insulative base, at least one heating wire, two metal locating plates, and a compression spring, said heat insulative base comprising a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates being fastened to said heat insulative base at two opposite sides and connected to two opposite ends of each of said at least one heating wire, said compression spring being mounted in said spring holder inside said casing to support said heat insulative base above said horizontal metal contacts;

a press bar having a fixed end pivoted to a rear side of said casing and a free end provided with a heat insulative block, said heat insulative block being pressed on the projecting block of said heat insulative base of said sealing mechanism when said press bar is turned downwards; and

safety means controlled to stop said at least one heating wire from heating.

2. The handy electric sealer of claim 1 wherein said safety means comprises a stop plate pivoted to a front side of said casing, and turned between a first position where said

stop plate is suspended above said sealing mechanism to stop said heat insulative block of said press bar from contacting the projecting block of the heat insulative base of said sealing mechanism, and a second position where said stop plate is moved  
5 away from said sealing mechanism for enabling said heat insulative block of said press bar to be pressed against the projecting block of said heat insulative base of said sealing mechanism.

3. The handy electric sealer of claim 1 wherein said  
10 safety means comprises a shaft mounted in a hole inside said casing in front of said front contact holder, a stop rod turned about said shaft, and a knob fixedly connected to said stop rod and extended out of a notch on said casing and operated by hand to turn said stop rod about said shaft between a first  
15 position where said stop rod is suspended above said horizontal metal contacts to stop said metal locating plates of said sealing mechanism from contacting said horizontal metal contacts, and a second position where said stop rod is moved away from said horizontal metal contacts for enabling said  
20 metal locating plates of said sealing mechanism to be moved downwards with said sealing mechanism into contact with said horizontal metal contacts.

4. The handy electric sealer of claim 1 wherein the number of said at least one heating wire is at least two.

25 5. A handy electric sealer comprising:

a casing, said casing comprising a front contact holder, a spring holder disposed in front of said front contact holder, a power socket for receiving external power supply, two horizontal metal contacts respectively mounted on said front  
30 contact holder, said power socket having two opposite terminals respectively connected to said horizontal metal contacts by a respective electric wire;

a sealing mechanism mounted in said casing and supported

on said spring holder and moved up and down relative to said casing, said sealing mechanism comprising a heat insulative base, at least one heating wire, two metal locating plates, and a compression spring, said heat insulative base comprising  
5 a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates being fastened to said heat insulative base at two opposite sides and connected to two opposite ends of each of said at least one heating wire,  
10 said compression spring being mounted in said spring holder inside said casing to support said heat insulative base above said horizontal metal contacts;

a press bar having a fixed end pivoted to a rear side of said casing and a free end provided with a heat insulative  
15 block, said heat insulative block being pressed on the projecting block of said heat insulative base of said sealing mechanism when said press bar is turned downwards; and

safety means controlled to stop said at least one heating wire from heating.

20 6. The handy electric sealer of claim 5 wherein said safety means comprises a stop plate pivoted to a front side of said casing, and turned between a first position where said stop plate is suspended above said sealing mechanism to stop said heat insulative block of said press bar from contacting  
25 the projecting block of the heat insulative base of said sealing mechanism, and a second position where said stop plate is moved away from said sealing mechanism for enabling said heat insulative block of said press bar to be pressed against the projecting block of said heat insulative base of said sealing  
30 mechanism.

7. The handy electric sealer of claim 5 wherein said safety means comprises a shaft mounted in a hole inside said casing in front of said front contact holder, a stop rod turned

about said shaft, and a knob fixedly connected to said stop rod and extended out of a notch on said casing and operated by hand to turn said stop rod about said shaft between a first position where said stop rod is suspended above said horizontal metal contacts to stop said metal locating plates of said sealing mechanism from contacting said horizontal metal contacts, and a second position where said stop rod is moved away from said horizontal metal contacts for enabling said metal locating plates of said sealing mechanism to be moved downwards with said sealing mechanism into contact with said horizontal metal contacts.

8. The handy electric sealer of claim 5 wherein the number of said at least one heating wire is at least two.

9. A handy electric sealer comprising:

a casing, said casing comprising a battery chamber holding a battery set, and a spring holder, said battery chamber comprising a front contact holder, a rear contact holder, a left-sided first metal contact and a right-sided first metal contact respectively mounted in said front contact holder and separated from each other, a pair of second metal contacts mounted in said rear contact holder and connected together, and a left-sided horizontal metal contact and a right-sided horizontal metal contact respectively on said front contact holder corresponding to said left-sided first metal contact and said right-sided second metal contact;

a sealing mechanism mounted in said casing and moved up and down relative to said casing, said sealing mechanism comprising a heat insulative base, at least one heating wire, two metal locating plates, and a compression spring, said heat insulative base comprising a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates being fastened to said heat insulative base at two opposite

sides and connected to two opposite ends of each of said at least one heating wire, said compression spring being mounted in said spring holder inside said casing to support said heat insulative base above said horizontal metal contacts;

5           an electric connector mounted in said casing for receiving an AC adapter;

          a press bar having a fixed end pivoted to a rear side of said casing and a free end provided with a heat insulative block, said heat insulative block being pressed on the  
10   projecting block of said heat insulative base of said sealing mechanism when said press bar is turned downwards; and

          safety means controlled to stop said at least one heating wire from heating.

          10. The handy electric sealer of claim 9 wherein said  
15   electric connector comprises a first terminal, a second terminal, and a third terminal, said first, second and third terminals being respectively connected to said left-sided first metal contact, said left-sided horizontal metal contact and said right-sided horizontal metal contact by respective  
20   electric wires, said first terminal and said second terminal being disposed in contact with each other before the installation of an AC adapter in said electric connector, said second terminal being forced away from said first terminal upon insertion of an AC adapter into said electric connector.

25           11. The handy electric sealer of claim 9 wherein said safety means comprises a stop plate pivoted to a front side of said casing, and turned between a first position where said stop plate is suspended above said sealing mechanism to stop  
30   said heat insulative block of said press bar from contacting the projecting block of the heat insulative base of said sealing mechanism, and a second position where said stop plate is moved away from said sealing mechanism for enabling said heat insulative block of said press bar to be pressed against the

projecting block of said heat insulative base of said sealing mechanism.

12. The handy electric sealer of claim 9 wherein the number of said at least one heating wire is at least two.

5 13. The handy electric sealer of claim 9 wherein said safety means comprises a safety switch installed in the electric wire connected between said second terminal of said electric connector and said left-sided horizontal metal contact, and controlled to close/open the circuit.

10 14. The handy electric sealer of claim 9 wherein said safety means comprises a shaft mounted in a hole inside said casing in front of said front contact holder, a stop rod turned about said shaft, and a knob fixedly connected to said stop rod and extended out of a notch on said casing and operated  
15 by hand to turn said stop rod about said shaft between a first position where said stop rod is suspended above said horizontal metal contacts to stop said metal locating plates of said sealing mechanism from contacting said horizontal metal  
20 contacts, and a second position where said stop rod is moved away from said horizontal metal contacts for enabling said metal locating plates of said sealing mechanism to be moved downwards with said sealing mechanism into contact with said horizontal metal contacts.

15. A handy electric sealer comprising:

25 a casing, said casing comprising a battery chamber holding a battery set, said battery chamber comprising a front contact holder, a rear contact holder, a left-sided first metal contact and a right-sided first metal contact respectively mounted in said front contact holder and separated from each  
30 other, a pair of second metal contacts mounted in said rear contact holder and connected together, a left-sided horizontal metal contact and a right-sided horizontal metal contact respectively mounted on said front contact holder

corresponding to said left-sided first metal contact and said right-sided second metal contact;

5 a sealing mechanism fixedly mounted in said casing, said sealing mechanism comprising a heat insulative base, at least one heating wire, and two metal locating plates, said heat insulative base comprising a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates being fastened to said heat insulative base at two opposite  
10 sides and connected to two opposite ends of each of said at least one heating wire and disposed in contact with said left-sided horizontal metal contact said right-sided horizontal metal contact respectively;

15 a press bar having a fixed end pivoted to a rear side of said casing and a free end provided with a heat insulative block, said heat insulative block being pressed on the projecting block of said heat insulative base of said sealing mechanism when said press bar is turned downwards; and

20 safety means controlled to stop said at least one heating wire from heating.

16. The handy electric sealer of claim 15 wherein said left-sided first metal contact and said left-sided horizontal metal contact are connected together; said right-sided first metal contact is connected to said right-sided horizontal  
25 metal contact by an electric wire through said safety means; said safety means comprises a press-button switch controlled to close/open the circuit of the electric wire connected between said right-sided first metal contact and said right-sided horizontal metal contact.

30 17. The handy electric sealer of claim 16 wherein said left-sided first metal contact and said left-sided horizontal metal contact are connected together; said right-sided first metal contact is connected to said right-sided horizontal

metal contact by an electric wire through said safety means;  
said safety means comprises a safety switch controlled to  
close/open the circuit of the electric wire connected between  
said right-sided first metal contact and said right-sided  
5 horizontal metal contact.

18. The handy electric sealer of claim 15 wherein said  
left-sided first metal contact and said left-sided horizontal  
metal contact are separated from each other, and said  
right-sided first metal contact and said right-sided  
10 horizontal metal contact are separated from each other; said  
safety means comprises a first electric wire connected between  
said left-sided first metal contact and said left-sided  
horizontal metal contact, a second electric wire connected  
between said right-sided first metal contact and said  
15 right-sided horizontal metal contact, a press-button switch  
installed in said first electric wire and controlled to  
close/open the circuit of said first electric wire, and a safety  
switch installed in said second electric wire and controlled  
to close/open the circuit of said first electric wire.

20 19. The handy electric sealer of claim 15 wherein said  
safety means comprises a stop plate pivoted to a front side  
of said casing, and turned between a first position where said  
stop plate is suspended above said sealing mechanism to stop  
said heat insulative block of said press bar from contacting  
25 the projecting block of the heat insulative base of said sealing  
mechanism, and a second position where said stop plate is moved  
away from said sealing mechanism for enabling said heat  
insulative block of said press bar to be pressed against the  
projecting block of said heat insulative base of said sealing  
30 mechanism.

20. The handy electric sealer of claim 15 wherein  
the number of said at least one heating wire is at least two.

21. A handy electric sealer comprising:



a casing, said casing comprising a front contact holder, a power socket for receiving external power supply, two horizontal metal contacts respectively mounted on said front contact holder, said power socket having two opposite  
5 terminals respectively connected to said horizontal metal contacts by a respective electric wire;

a sealing mechanism fixedly mounted in said casing, said sealing mechanism comprising a heat insulative base, at least one heating wire, and two metal locating plates, said heat  
10 insulative base comprising a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates being fastened to said heat insulative base at two opposite sides and connected to two opposite ends of each of said at  
15 least one heating wire and disposed in contact with said horizontal metal contacts;

a press bar having a fixed end pivoted to a rear side of said casing and a free end provided with a heat insulative block, said heat insulative block being pressed on the  
20 projecting block of said heat insulative base of said sealing mechanism when said press bar is turned downwards; and safety means controlled to stop said at least one heating wire from heating.

22. The handy electric sealer of claim 21 wherein said  
25 safety means comprises a press-button switch installed one of the electric wires between the two opposite terminals of said power socket and said horizontal metal contacts, and operated to close/open the circuit.

23. The handy electric sealer of claim 21 wherein said  
30 safety means comprises a safety switch installed one of the electric wires between the two opposite terminals of said power socket and said horizontal metal contacts, and operated to close/open the circuit.

24. The handy electric sealer of claim 21 wherein said safety means comprises a safety switch and a press-button switch respectively installed in the electric wires between the two opposite terminals of said power socket and said horizontal metal contacts, and operated to close/open the circuit of the electric wires.

25. The handy electric sealer of claim 21 wherein said safety means comprises a stop plate pivoted to a front side of said casing, and turned between a first position where said stop plate is suspended above said sealing mechanism to stop said heat insulative block of said press bar from contacting the projecting block of the heat insulative base of said sealing mechanism, and a second position where said stop plate is moved away from said sealing mechanism for enabling said heat insulative block of said press bar to be pressed against the projecting block of said heat insulative base of said sealing mechanism.

26. The handy electric sealer of claim 21 wherein the number of said at least one heating wire is at least two.

27. A handy electric sealer comprising:

a casing, said casing comprising a battery chamber holding a battery set, said battery chamber comprising a front contact holder, a rear contact holder, a left-sided first metal contact and a right-sided first metal contact respectively mounted in said front contact holder and separated from each other, a pair of second metal contacts mounted in said rear contact holder and connected together, a left-sided horizontal metal contact and a right-sided horizontal metal contact respectively mounted on said front contact holder corresponding to said left-sided first metal contact and said right-sided second metal contact;

a sealing mechanism fixedly mounted in said casing, said sealing mechanism comprising a heat insulative base, at least

one heating wire, and two metal locating plates, said heat insulative base comprising a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates  
5 being fastened to said heat insulative base at two opposite sides and connected to two opposite ends of each of said at least one heating wire and disposed in contact with said left-sided horizontal metal contact said right-sided horizontal metal contact respectively;

10 an electric connector installed in said casing for receiving an AC adapter;

a press bar having a fixed end pivoted to a rear side of said casing and a free end provided with a heat insulative block, said heat insulative block being pressed on the  
15 projecting block of said heat insulative base of said sealing mechanism when said press bar is turned downwards; and

safety means controlled to stop said at least one heating wire from heating.

28. The handy electric sealer of claim 27 wherein said  
20 electric connector comprises a first terminal, a second terminal, and a third terminal, said first, second and third terminals being respectively connected to said left-sided first metal contact, said left-sided horizontal metal contact and said right-sided horizontal metal contact by respective  
25 electric wires, said first terminal and said second terminal being disposed in contact with each other before the installation of an AC adapter in said electric connector, said second terminal being forced away from said first terminal upon insertion of an AC adapter into said electric connector.

30 29. The handy electric sealer of claim 27 wherein said safety means comprises a stop plate pivoted to a front side of said casing, and turned between a first position where said stop plate is suspended above said sealing mechanism to stop

said heat insulative block of said press bar from contacting the projecting block of the heat insulative base of said sealing mechanism, and a second position where said stop plate is moved away from said sealing mechanism for enabling said heat  
5 insulative block of said press bar to be pressed against the projecting block of said heat insulative base of said sealing mechanism.

30. The handy electric sealer of claim 27 wherein the number of said at least one heating wire is at least two.

10 31. The handy electric sealer of claim 27 wherein said left-sided horizontal metal contact and said right-sided horizontal metal contact each have an upright lug respectively coupled to the metal locating plates of said sealing mechanism to hold said sealing mechanism in place.

15 32. The handy electric sealer of claim 27 wherein said left-sided horizontal metal contact and said right-sided horizontal metal contact each have an upright lug, the upright lugs of said left-sided horizontal metal contact and said right-sided horizontal metal contact each having a coupling  
20 hole; said metal locating plates of said sealing mechanism each comprise a bolt at an outer side respectively releasably coupled to the coupling hole at the upright lugs of said left-sided horizontal metal contact and said right-sided horizontal metal contact.

25 33. A handy electric sealer comprising:  
a casing, said casing comprising a heat insulative block;

30 a press bar having a fixed end pivoted to one side of said casing remote from said heat insulative block and a free end;

a sealing mechanism installed in the free end of said press bar, said sealing mechanism comprising a heat insulative base, at least one heating wire, and two metal locating plates,

5 said heat insulative base comprising a projecting block on the middle, said at least one heating wire being mounted on the projecting block of said heat insulative base, said metal locating plates being fastened to said heat insulative base at two opposite sides and connected to two opposite ends of each of said at least one heating wire; and

safety means controlled to stop said at least one heating wire from heating.

34. The handy electric sealer of claim 33 wherein said  
10 press bar comprises two metal press plates respectively electrically connected to said sealing mechanism; said casing comprises a heat insulative block at a top side thereof corresponding to said sealing mechanism, a heat resisting cover sheet covered on said heat insulative block, and a switch,  
15 said switch being driven by said metal press plates to turn on said sealing mechanism when said metal press bar is depressed to force said sealing mechanism against said heat insulative block.

35. The handy electric sealer of claim 33 wherein said  
20 safety means comprises a stop plate pivoted to a front side of said casing, and turned between a first position where said stop plate is suspended above said sealing mechanism to stop said heat insulative block of said press bar from contacting the projecting block of the heat insulative base of said sealing  
25 mechanism, and a second position where said stop plate is moved away from said sealing mechanism for enabling said heat insulative block of said press bar to be pressed against the projecting block of said heat insulative base of said sealing mechanism.

30 36. The handy electric sealer of claim 33 wherein the number of said at least one heating wire is at least two.

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